

# Python Mock Interview Questions

1. Write a Python program to find the sum of all prime numbers within a given range.
2. Write a Python program to check if a given number is a perfect number or not. (A perfect number is a positive integer that is equal to the sum of its proper divisors.)
3. Write a Python program to calculate the factorial of a given number using recursion.
4. Write a Python program to check if a given string is a palindrome or not.
5. Write a Python program to find the sum of all even numbers in a given list.
6. Write a Python program to find the second largest number in a given list.
7. Write a Python program to remove all duplicates from a given list and return new list without duplicates.
8. Write a Python program to count the frequency of each element in a given list and display the elements with their frequencies.
9. Write a Python program to reverse a given string without using any built-in string reversal functions or methods.
10. Write a Python program to find the maximum product of two integers in a given list.

Q1. What does this program print?

```
a = 1
```

```
while True:
```

```
    if a % 9 == 0:
```

```
        break
```

```
    print(a)
```

```
    a += 1
```

- a. 1 2 3 4 5 6
- b. 1 2 3 4 5 6 7 8
- c. 1 2 3 4 5 6 7 8 9
- d. none of these

2. What does this program print?

```
days = "Mon, Tue, Wed, Thu, Fri, Sat, Sun"
```

```
print(days[::-5])
```

- a. Mon Tue Wed Thu Fri Sat Sun
- b. Fri
- c. MTWTFSS

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d. T

3. The following python program can work with \_\_\_\_ parameters.

```
def f(x):  
    def f1(*args, **kwargs):  
        print("Sanfoundry")  
        return x(*args, **kwargs)  
    return f1
```

- a) any number of arguments
- b) 0
- c) 1
- d) 2

Q4. Which of these is the definition for packages in Python?

- a) A set of main modules
- b) A folder of python modules
- c) A number of files containing Python definitions and statements
- d) A set of programs making use of Python modules

Q5. What should be the output of this code

```
i = 0  
while i < 5:  
    print(i)  
    i += 1  
    if i == 3:  
        break  
else:  
    print(0)
```

- a) error
- b) 0 1 2 0
- c) 0 1 2
- d) none of the mentioned

Q6. What should be the output of this code

```
def addItem(listParam):  
    listParam += [1]
```

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```
mylist = [1, 2, 3, 4]
addItem(mylist)
print(len(mylist))
```

- a) 5
- b) 8
- c) 2
- d) 1

Q7. What is output of `print(math.pow(3, 2))`?

- a) 9.0
- b) None
- c) 9
- d) None of the mentioned

Q8. Which of the following is the use of `id()` function in python?

- a) Every object in Python doesn't have a unique id
- b) In Python Id function returns the identity of the object
- c) None of the mentioned
- d) All of the mentioned

Q9. What should be the output of this code

```
def foo():
    try:
        return 1
    finally:
        return 2
k = foo()
print(k)
```

- a) error, there is more than one return statement in a single try-finally block
- b) 3
- c) 2
- d) 1

Q10. What should be the output of this code\

```
elements = [0, 1, 2]
```

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```
def incr(x):  
    return x+1  
print(list(map(elements, incr)))
```

- a) [1, 2, 3]
- b) [0, 1, 2]
- c) error
- d) none of the mentioned

Q11. What should be the output of this code

```
x = ['ab', 'cd']  
print(map(len, x))
```

- a) ['ab', 'cd']
- b) [2, 2]
- c) ['2', '2']
- d) none of the mentioned

Q12. What should be the output of this code

```
s1={3, 4}  
s2={1, 2}  
s3=set()  
i=0  
j=0  
for i in s1:  
    for j in s2:  
        s3.add((i,j))  
        i+=1  
        j+=1  
print(s3)
```

- a) {(3, 4), (1, 2)}
- b) Error
- c) {(4, 2), (3, 1), (4, 1), (5, 2)}
- d) {(3, 1), (4, 2)}

Q13. What should be the output of this code

```
a={"a":1,"b":2,"c":3}  
b=dict(zip(a.values(),a.keys()))  
print(b)
```

- a) {'a': 1, 'b': 2, 'c': 3}
- b) An exception is thrown
- c) {'a': 'b': 'c': }
- d) {1: 'a', 2: 'b', 3: 'c'}

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Q14. Which of the following statement is true?

- a. TRUNCATE free the table space while DELETE does not.
- b. Both TRUNCATE and DELETE statements free the table's space.
- c. Both TRUNCATE and DELETE statement does not free the table's space.
- d. DELETE free the table space while TRUNCATE does not.

Q15. Which of the following is true about the SQL AS clause?

- a. The AS clause in SQL is used to change the column name in the output or assign a name to a derived column.
- b. The SQL AS clause can only be used with the JOIN clause.
- c. The AS clause in SQL is used to defines a search condition.
- d. All of the mentioned